

FIG. 1

# BUTLER Array Structure

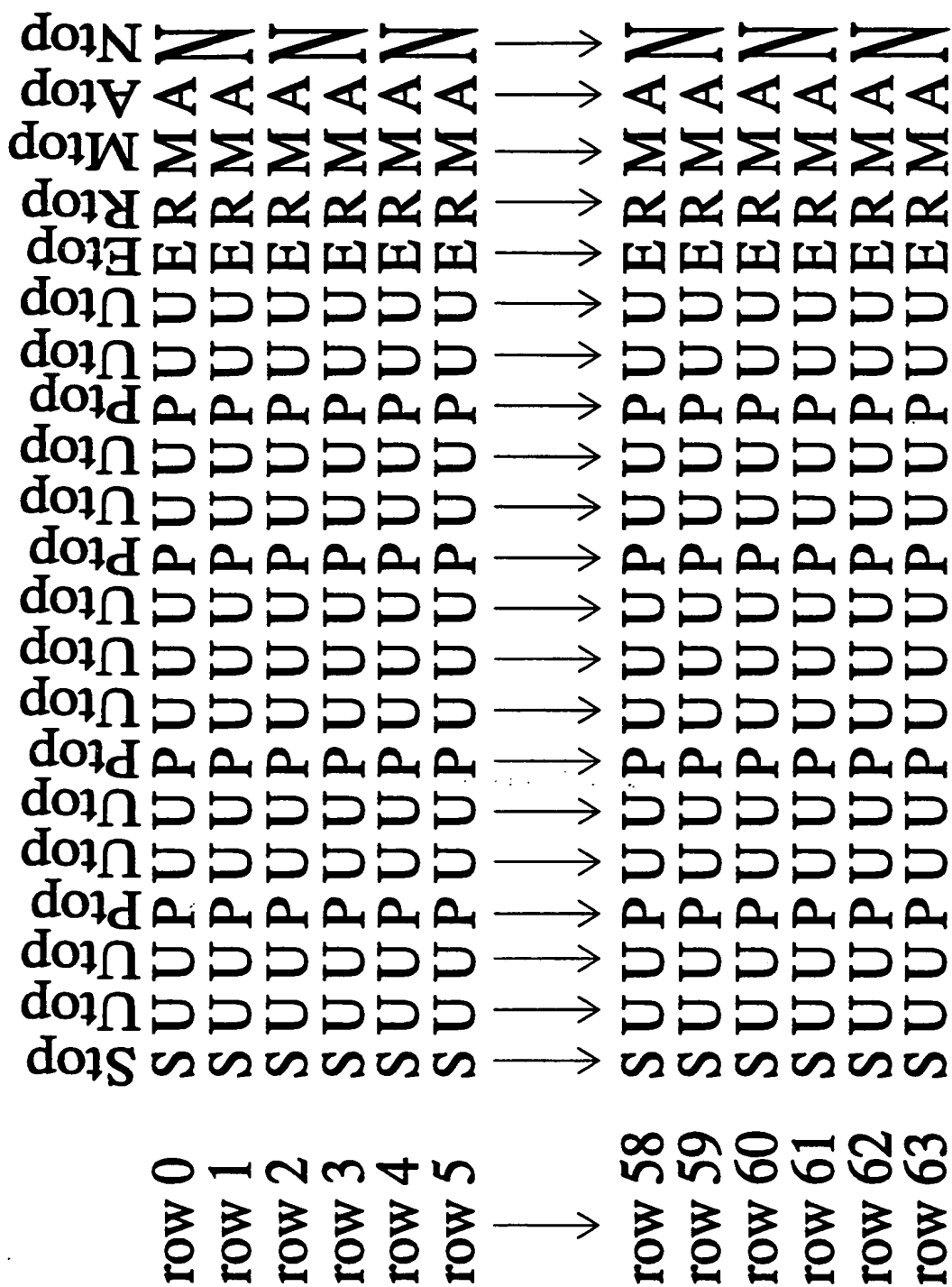


FIG. 2

## Array Tile\_S

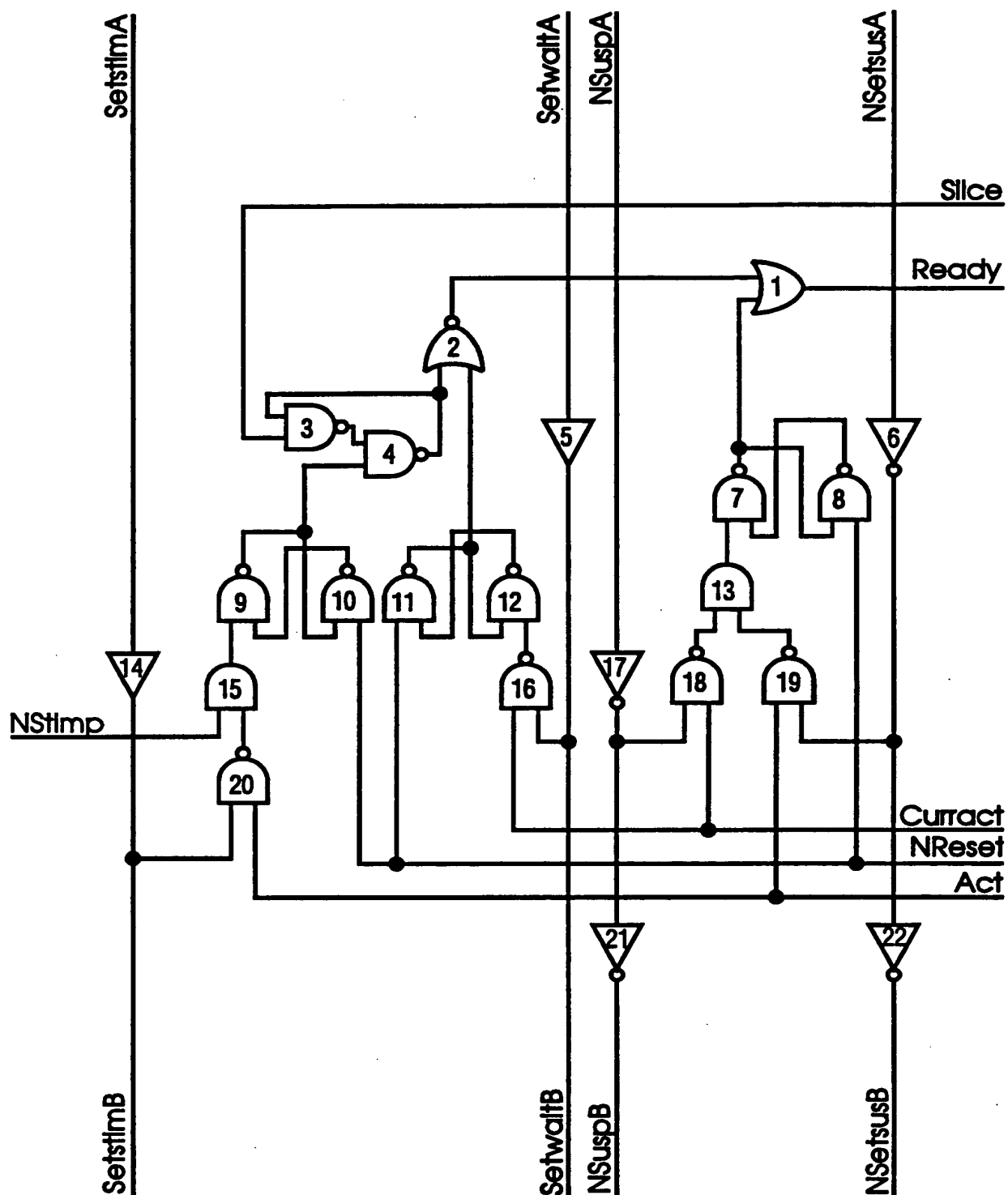


FIG.3

# Array Tile\_U

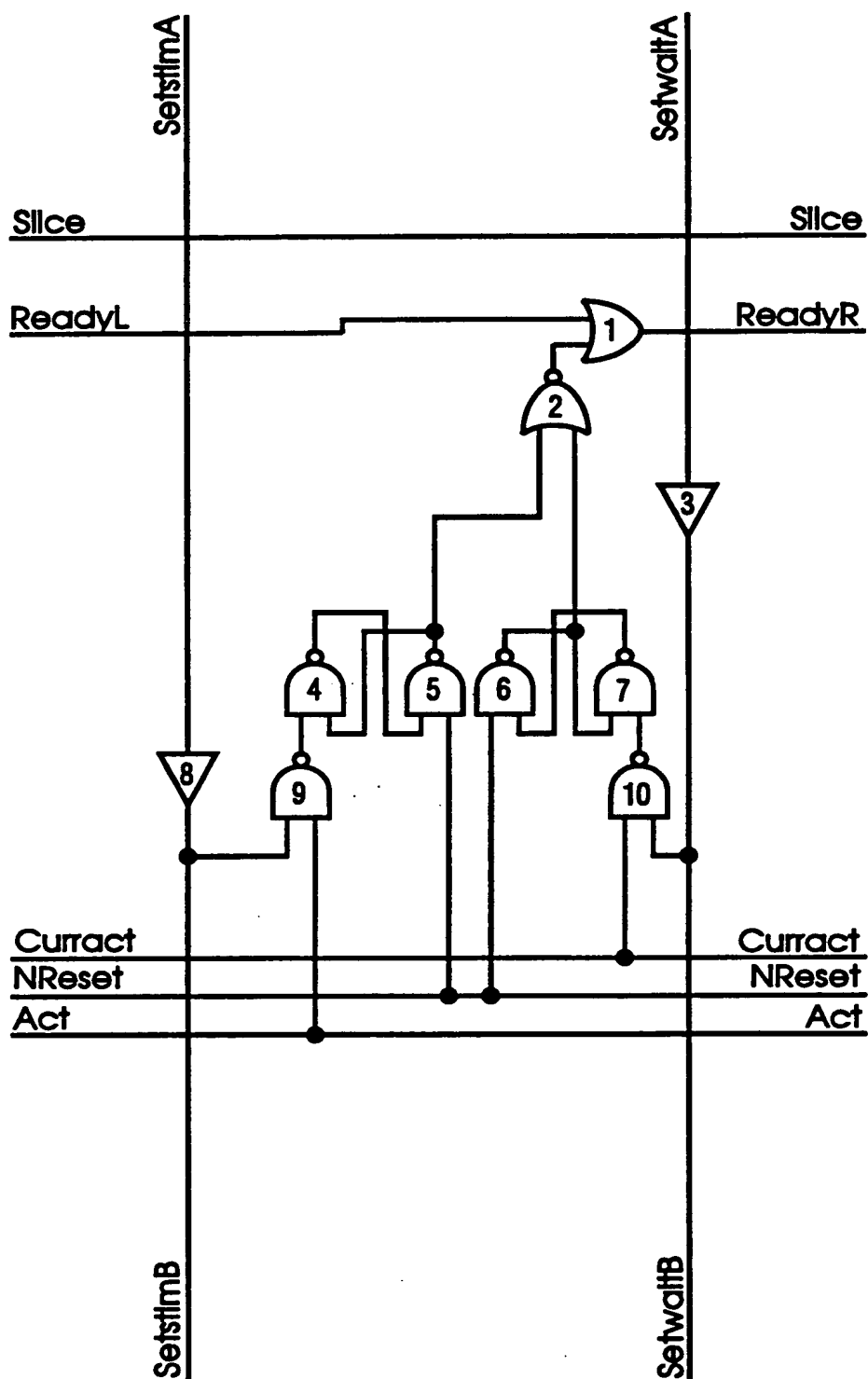


FIG. 4

# Array Tile\_P

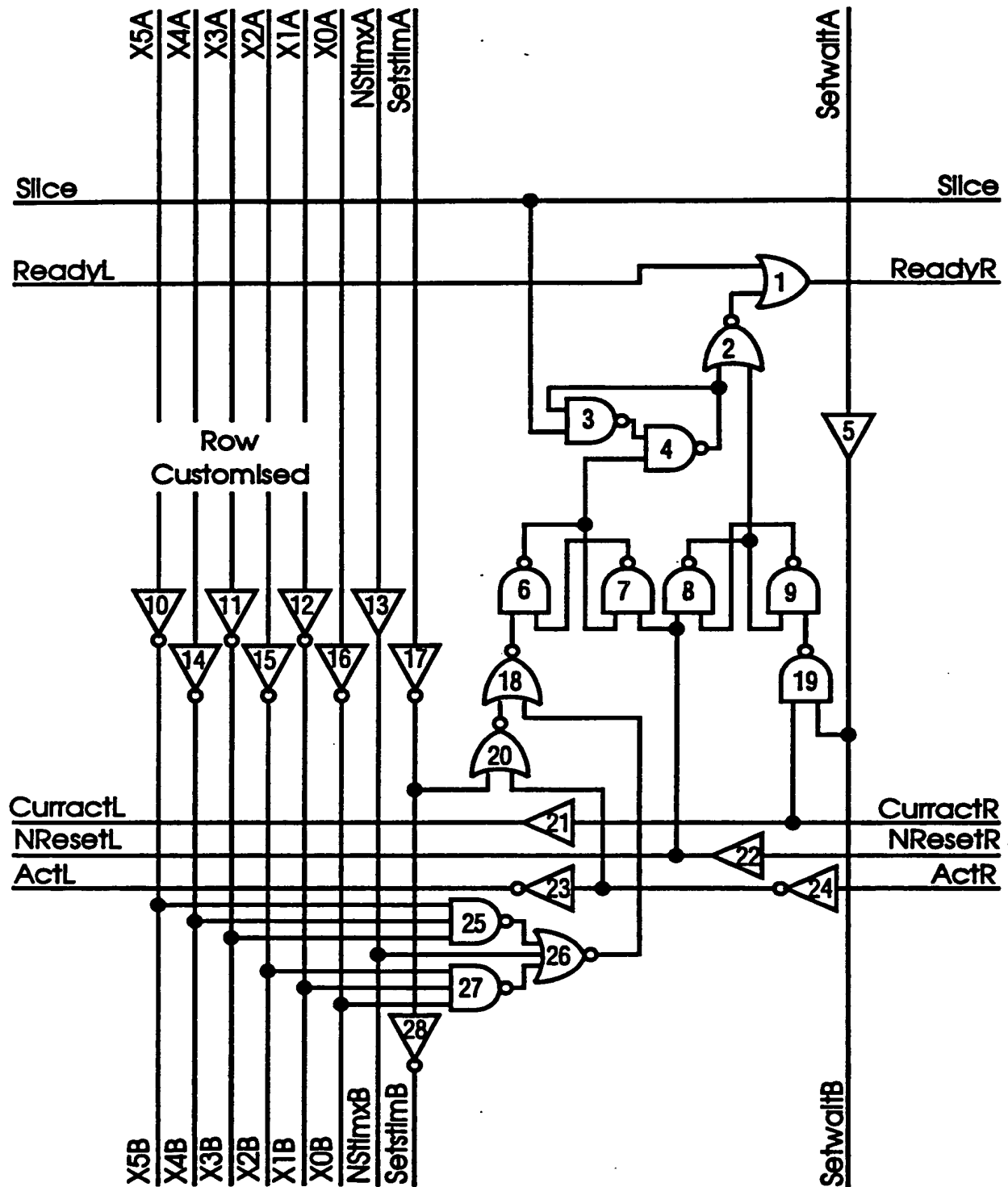


FIG. 5

# Array Tile\_E

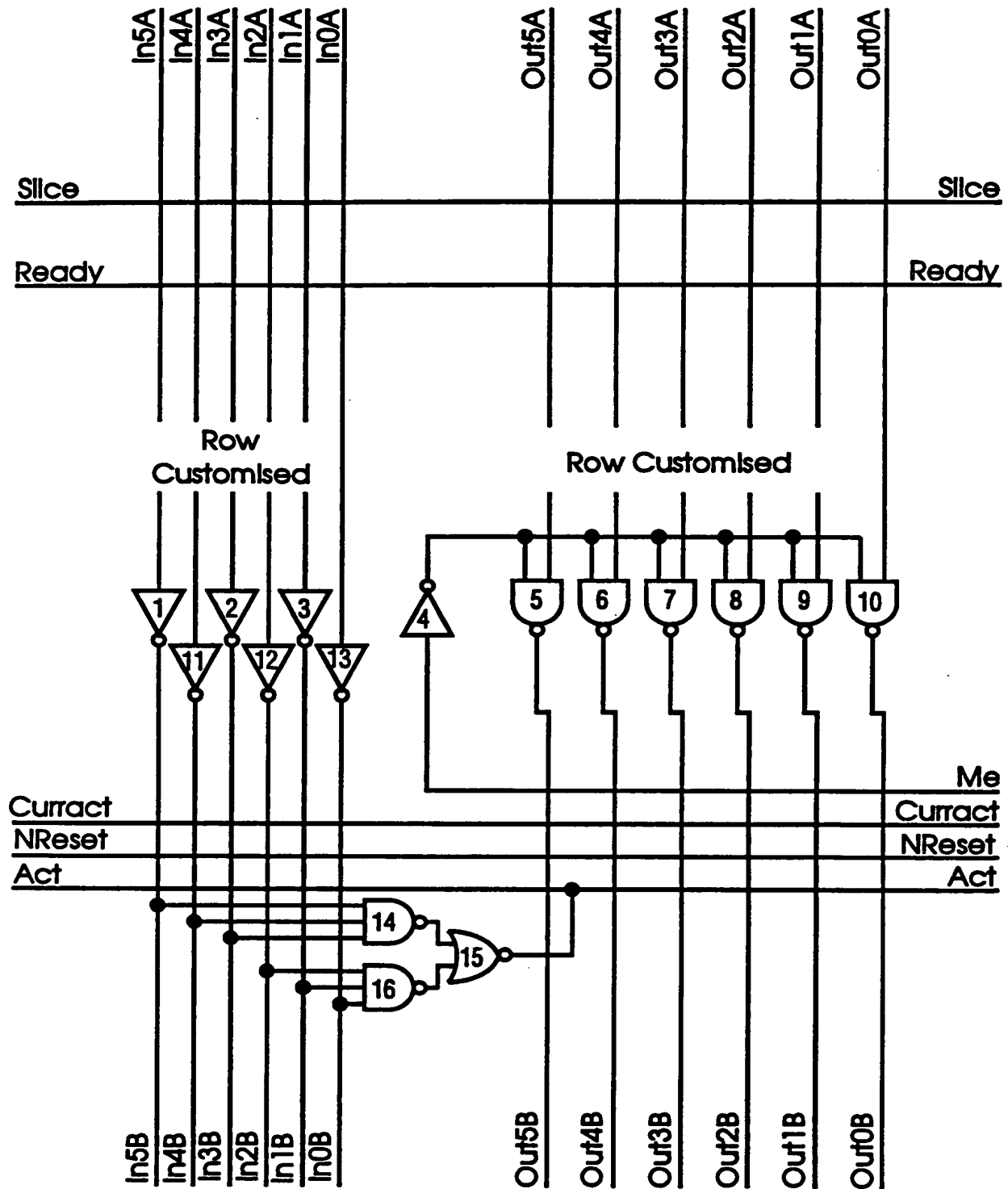


FIG. 6

# Array Tile\_R

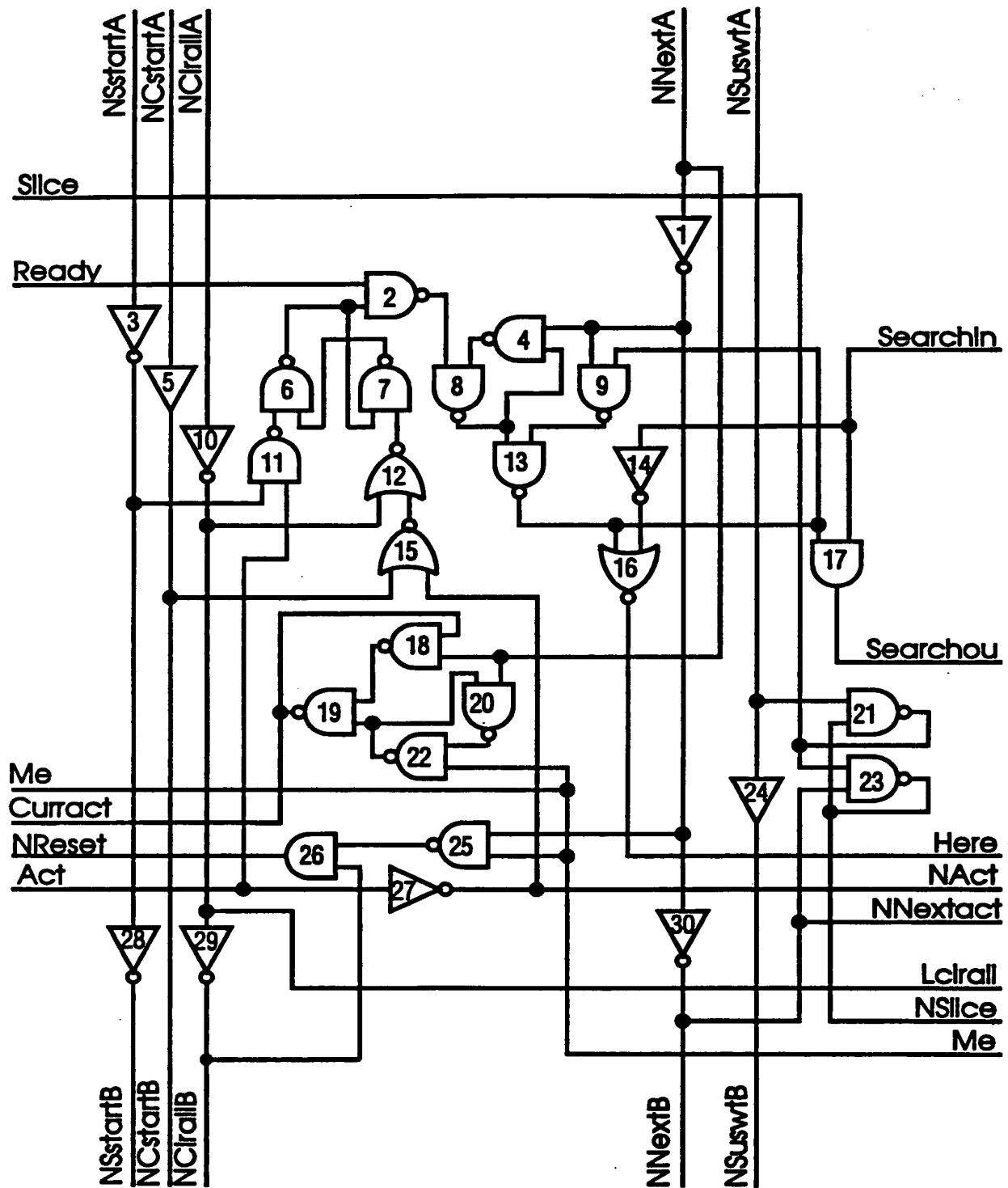


FIG. 7

# Array Tile\_M

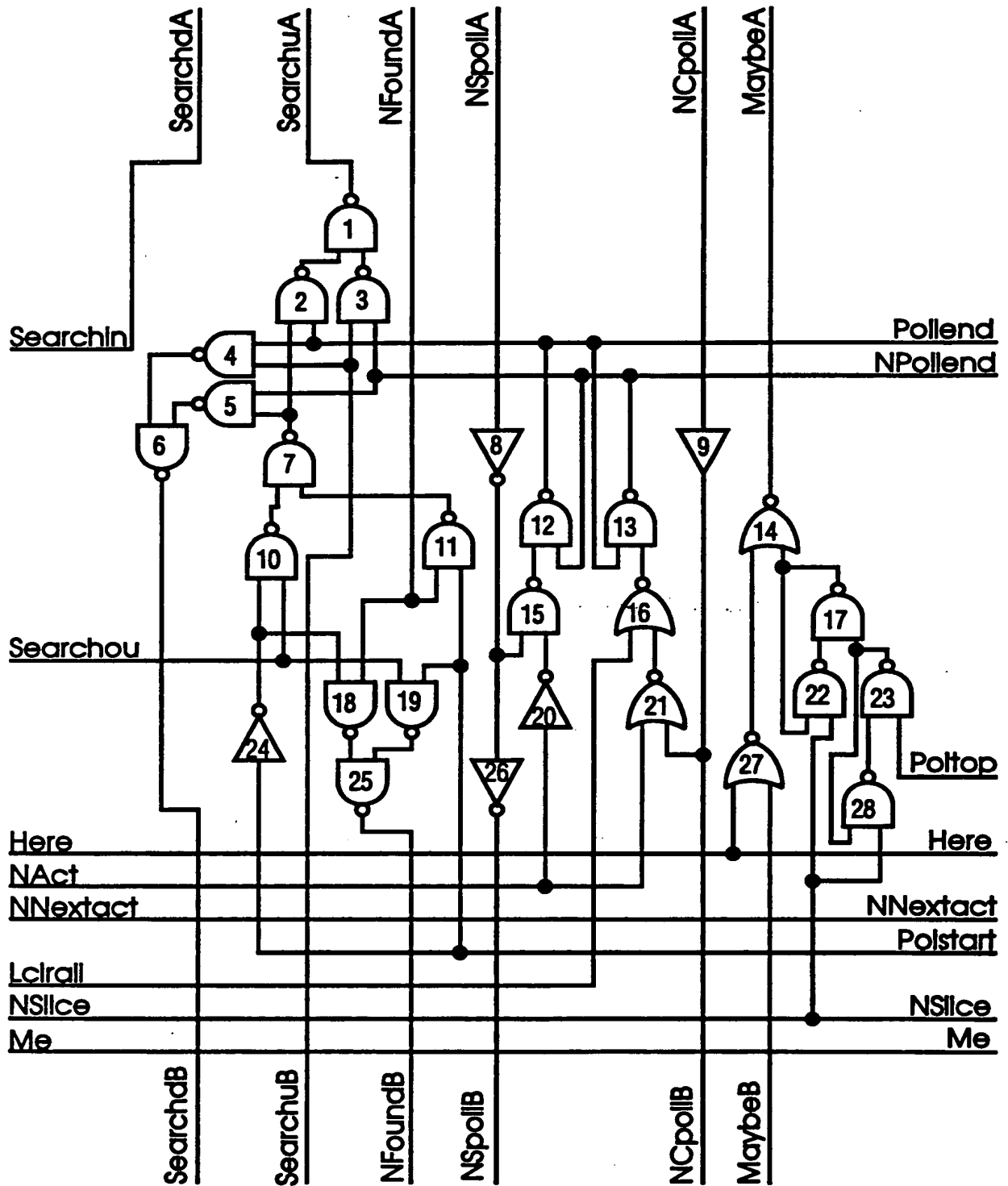


FIG. 8



# Array Tile\_A

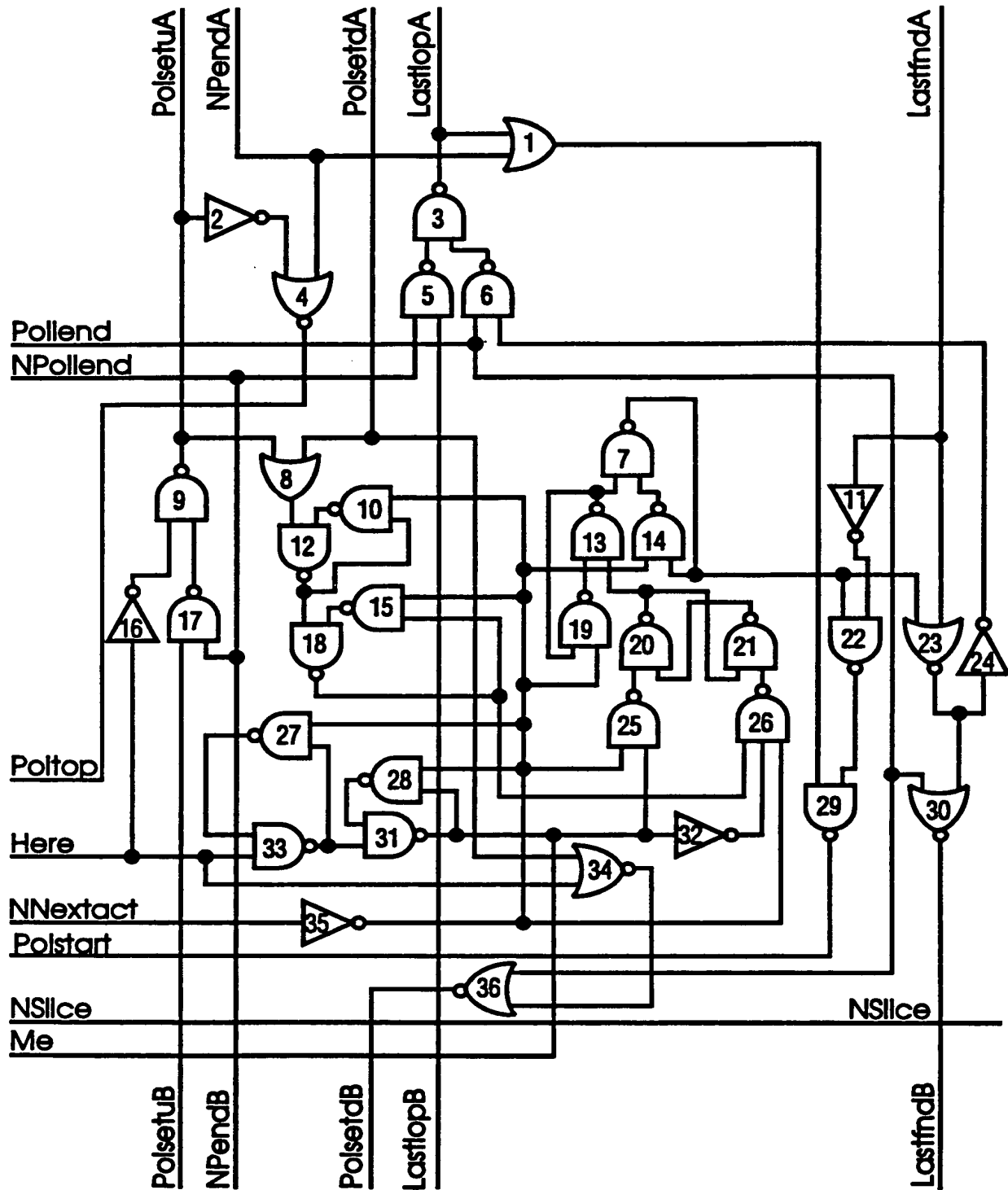


FIG. 9

# Array Tile\_N

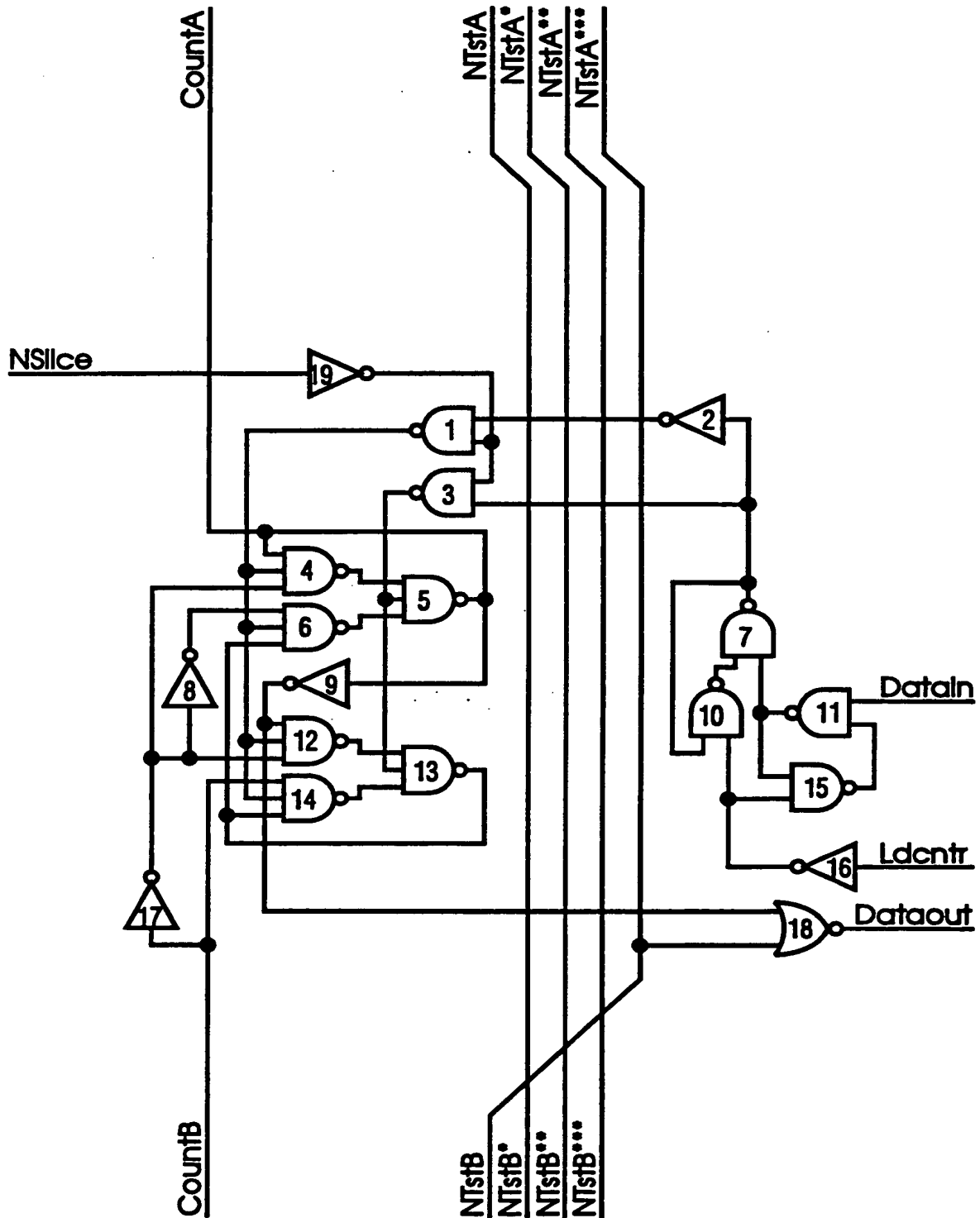


FIG. 10

## Array Tile\_Stop

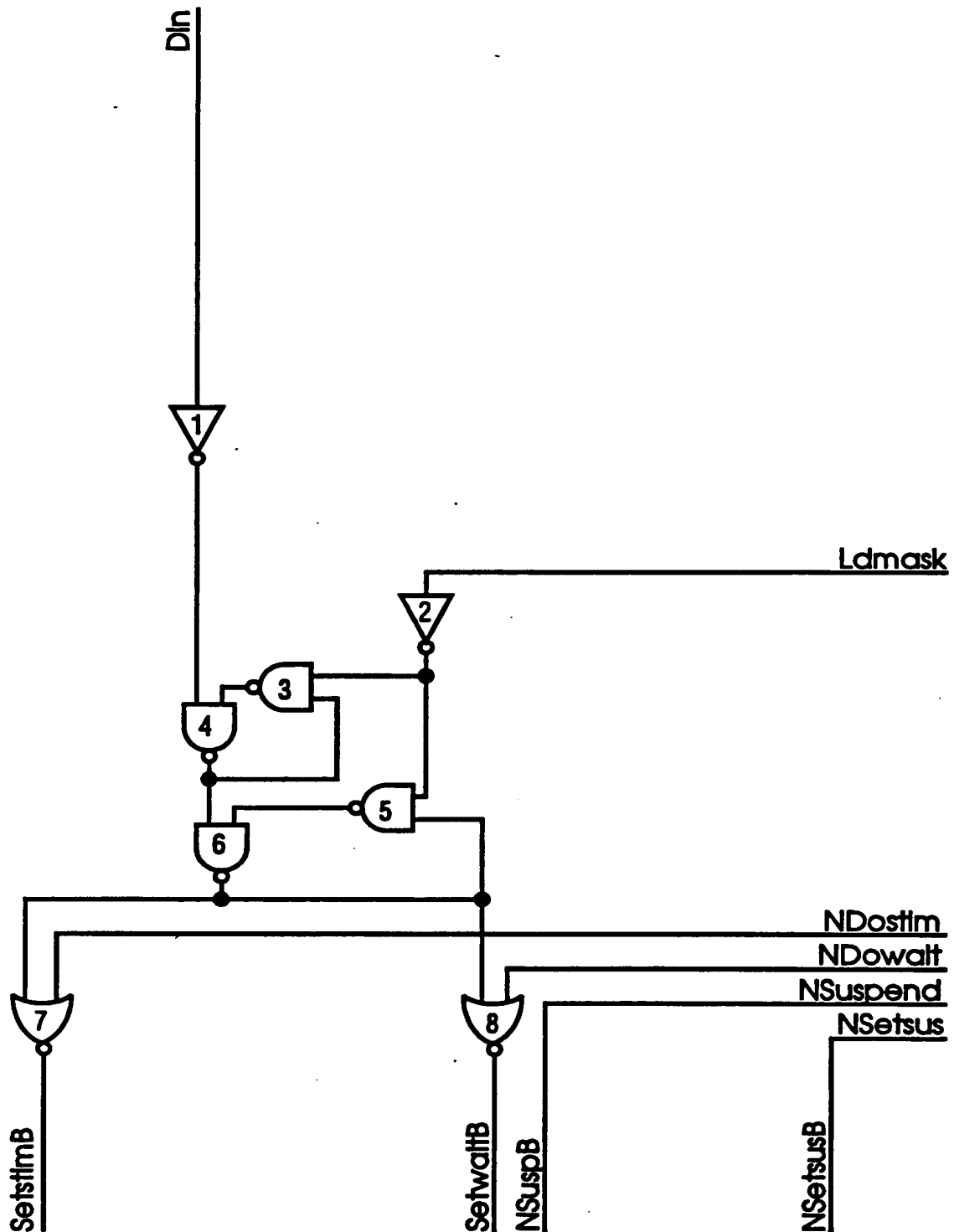


FIG. 11

# Array Tile\_Utop

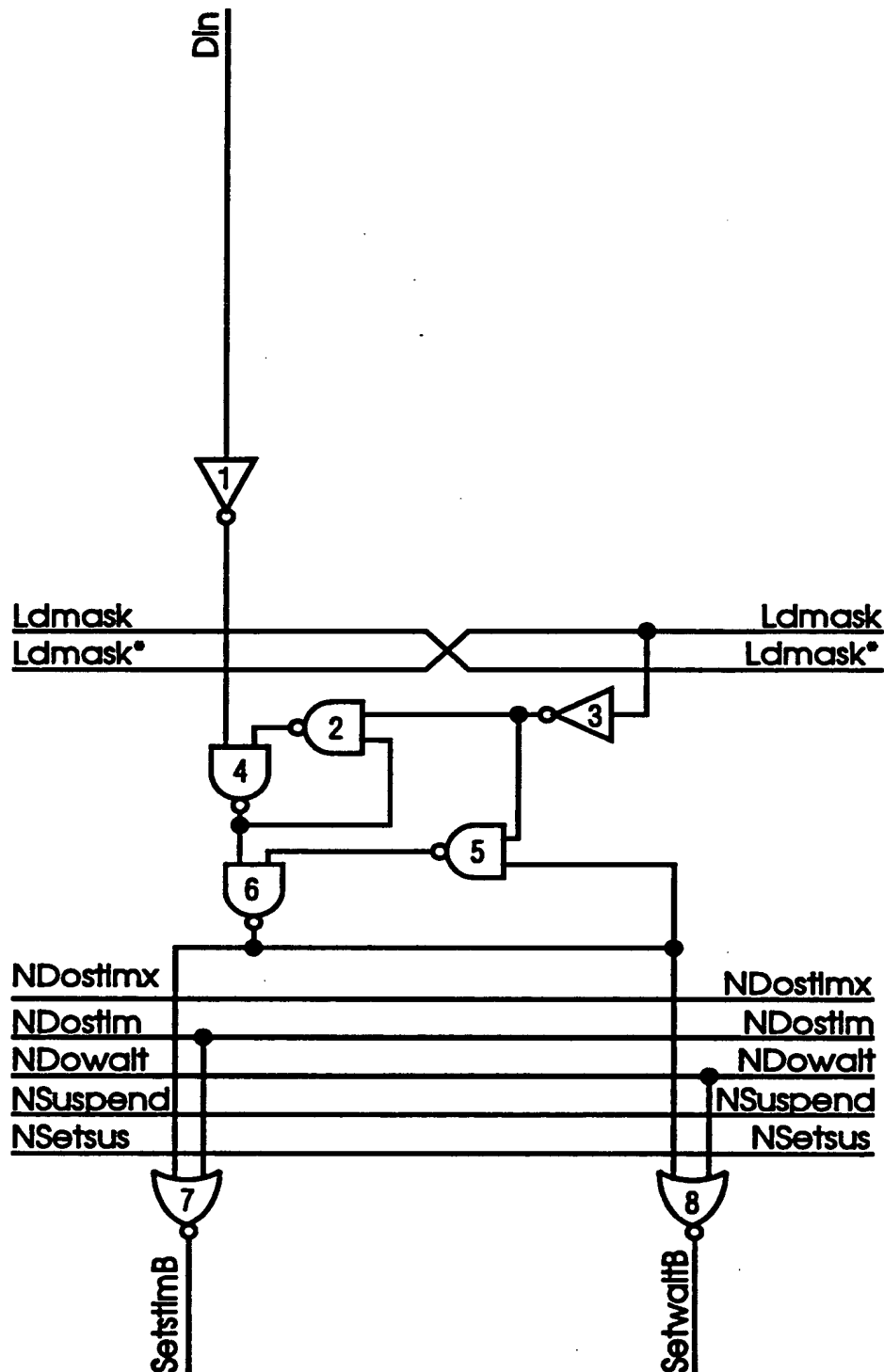


FIG. 12

# Array Tile\_Ptop

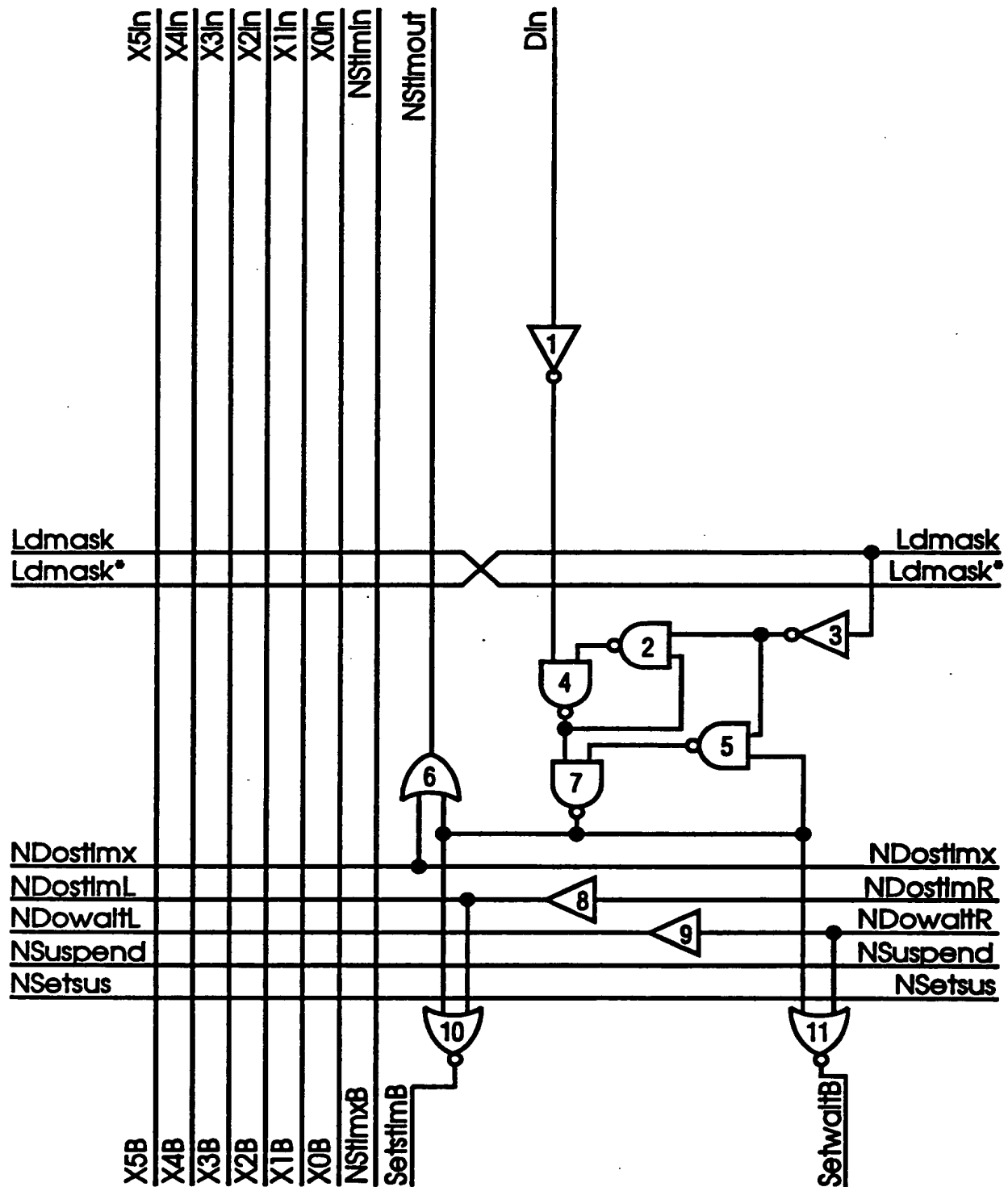


FIG. 13

# Array Tile\_Etop

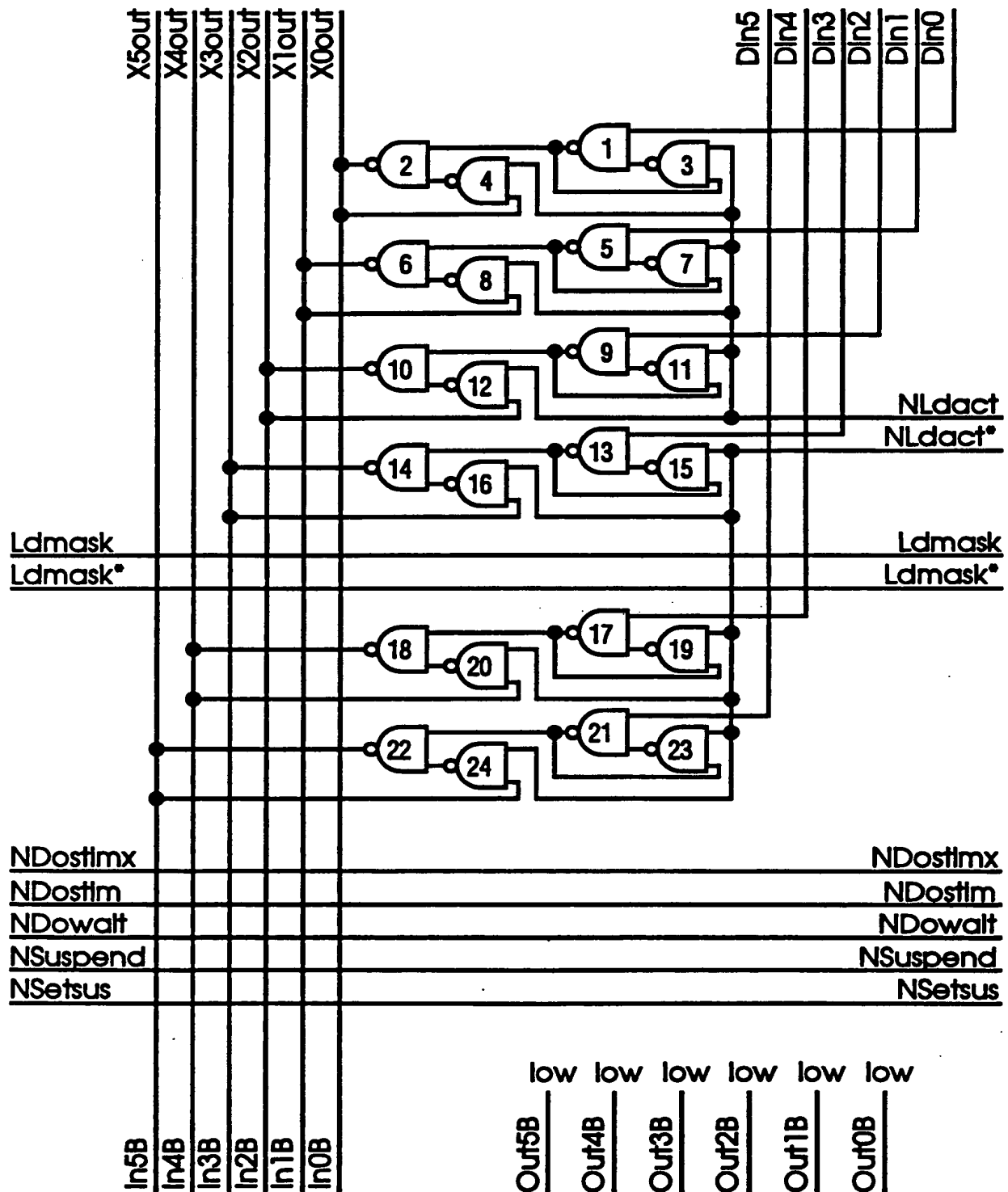


FIG. 14

# Array Tile\_Rtop

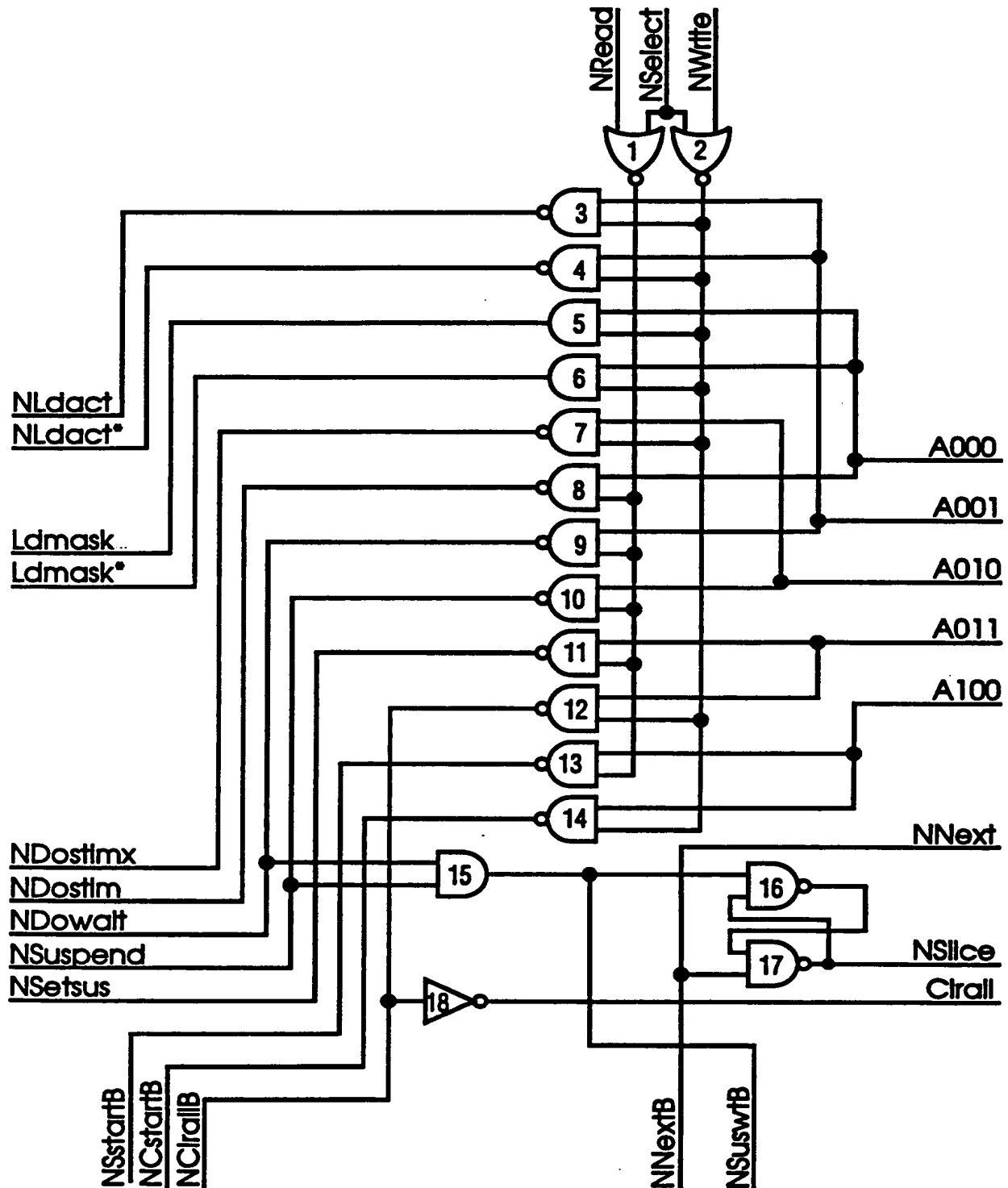


FIG. 15

# Array Tile\_Mtop

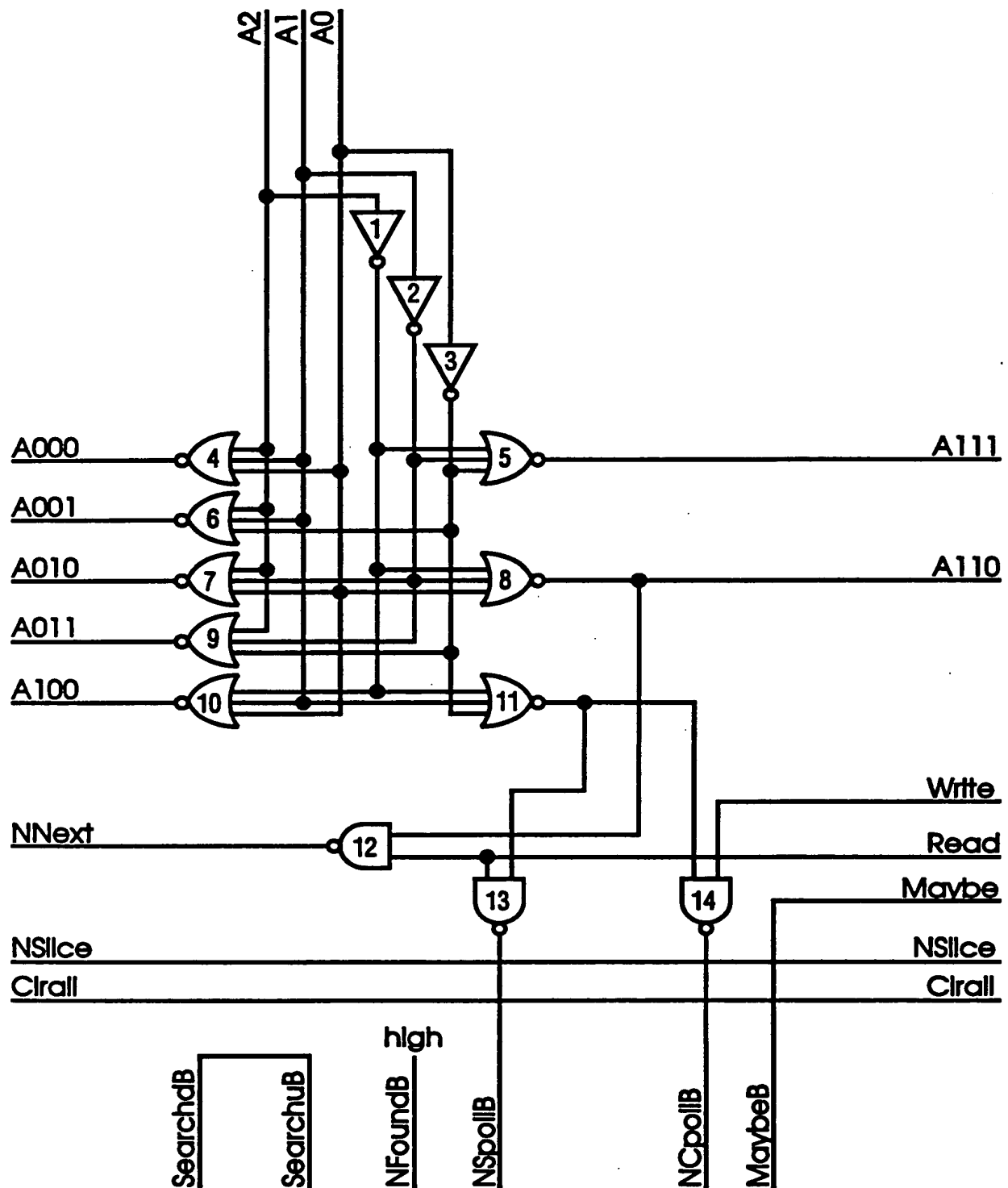


FIG. 16



# Array Tile\_Atop

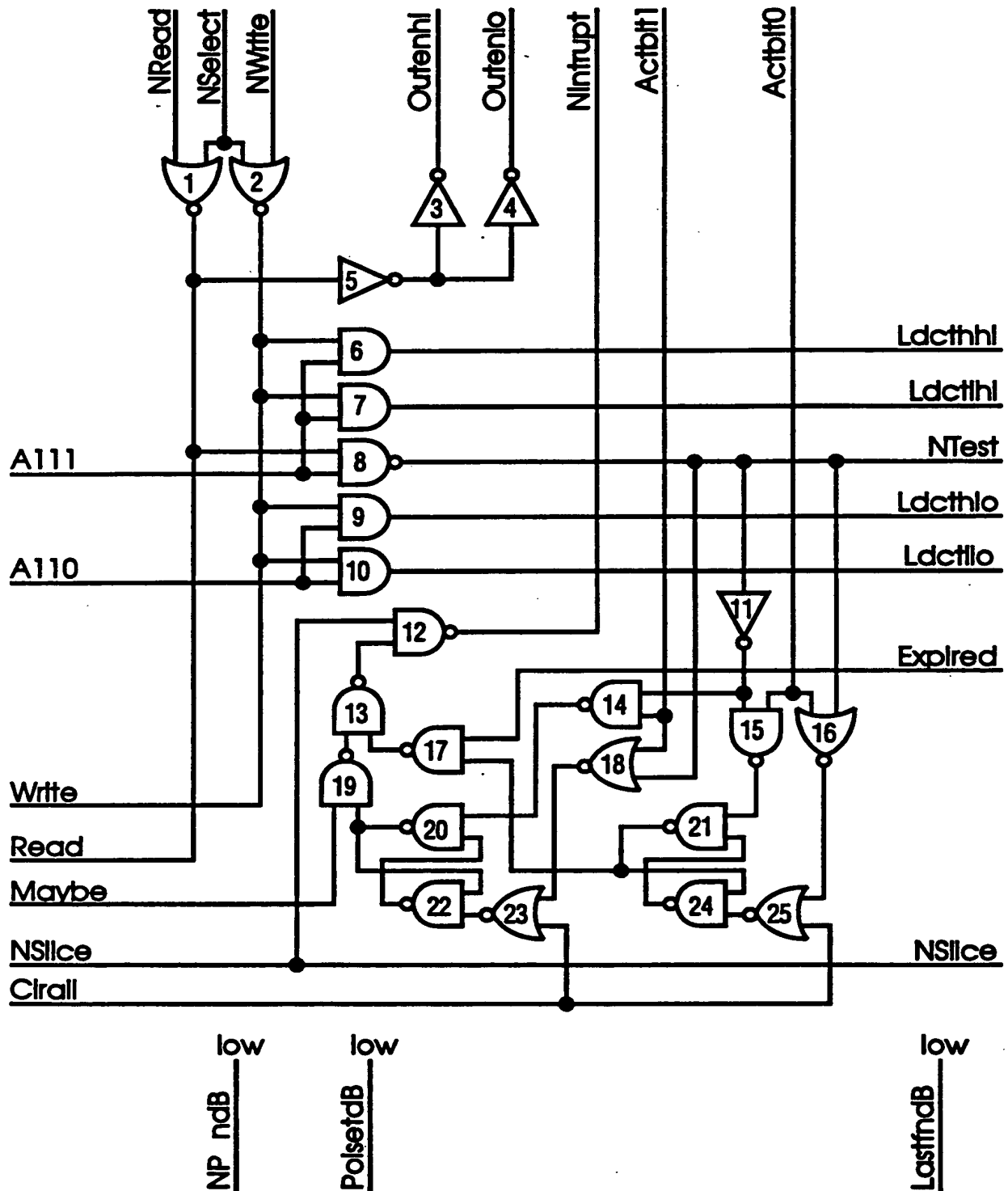


FIG. 17

# Array Tile\_Ntop

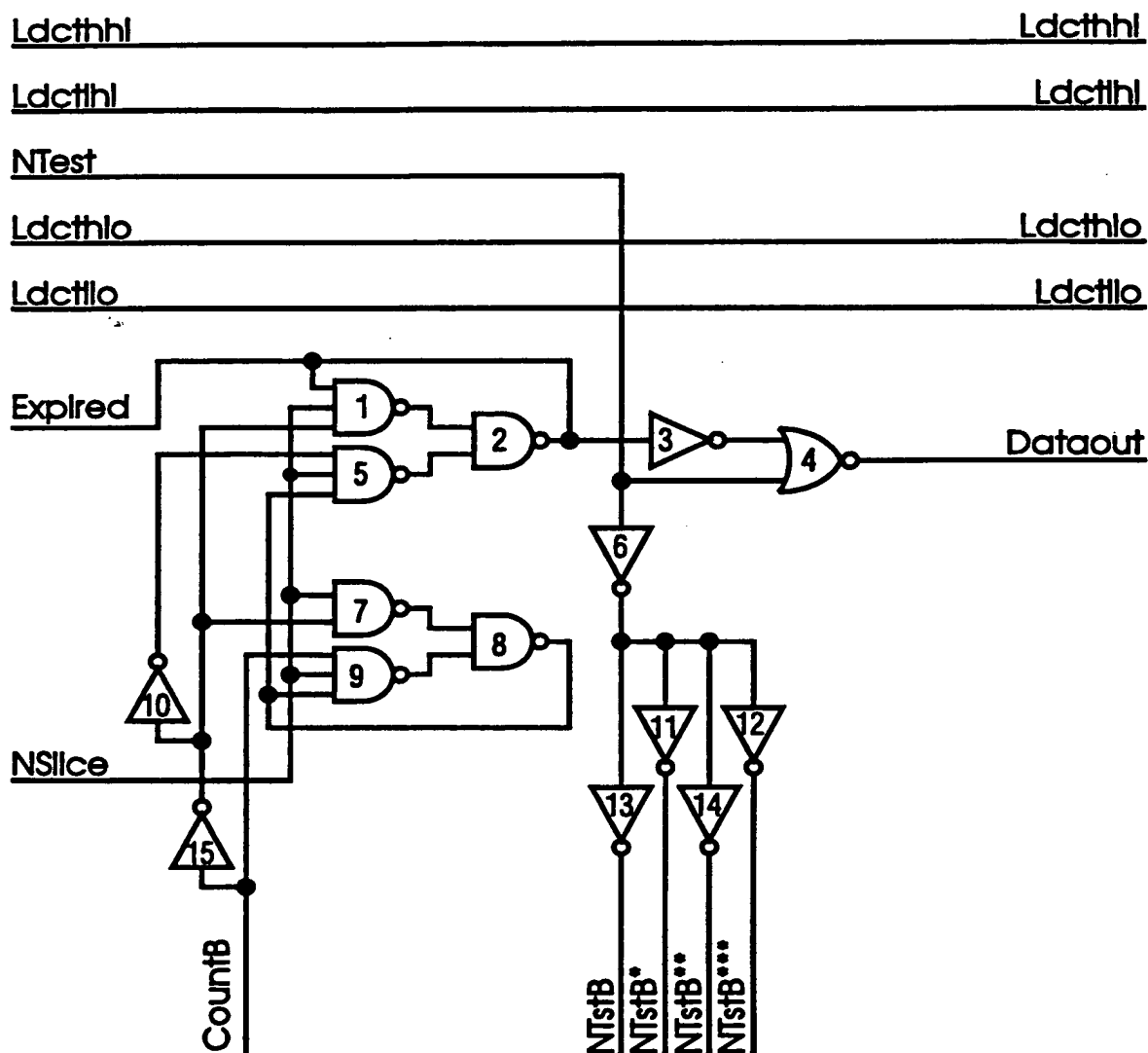


FIG 18

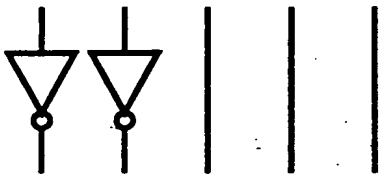
# Customising Tile\_P and Tile\_E



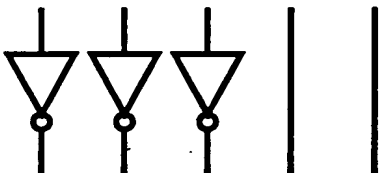
Rows 0,32



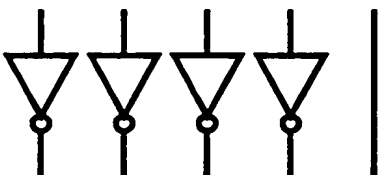
Rows 16,48



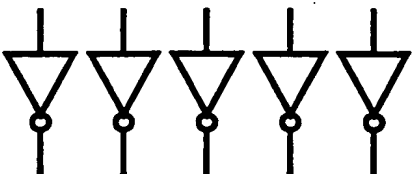
Rows 8,24,40,56



Rows 4,12,20,28,36,44,52,60



Rows 2,6,10,14,18,22,26,30,  
34,38,42,46,50,54,58,62



Rows 1,3,5,7,9,11,13,15,  
17,19,21,23,25,27,29,31,  
33,35,37,39,41,43,45,47,  
49,51,53,55,57,59,61,63